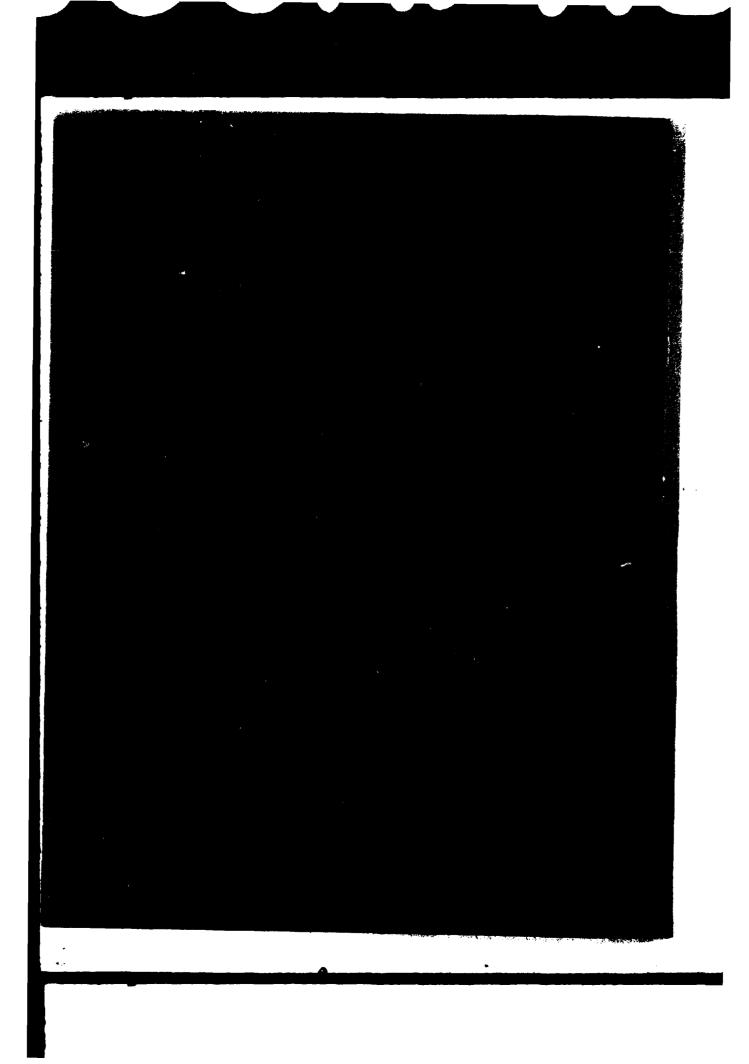
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12823A LANCE MISSILE NUMBER 3717, ROUND NUMBER 343 ECL, 11 APRI--ETC((1))
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11. CONTROLLING OFFICE NAME AND ADDRES		12. REPORT DATE
US Army Electronics Research		April 1980
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13 SUPPLEMENTARY NOTES		
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Meteorological data gathered for Number 3717, Round Number 343	or the launching of t	

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## INTROF TIES,

12823A LANCE . Missile Number 3717 . Round term 343 ECL .
was launched from DON SITE , White him is Mishille hange (Wishe), tow their c.
of 0855 MST on 11 April 1980 . The schedule flaunch time sch
0830 MST
Mindess) t.
Meteorological data were recorded and reduced by the Little lands Meteorological trans. Atmospheric Sciences Laboratory (ASL), deste Sand Missile Rein , www.fice. The data were obtained by the collowing method.
1. Sommyations
a. our face
(°C), relative humidity, dew point (°C), der ity $(gn/m^3)$ , Wind direction and speed, and close cover were made at the $\overline{DON}$ Met Site at Territor.
(.) Monitor of wind speed and direction from one anemometer was provide in the launch control room.
b. Opper Ai
(1) Low level wind data were obtained from PAPIS Tar profit
tion at:
SITE AND ALTERUP
DON 2100 meters and 2880 meters
(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to <b>high as possible</b> feet in 500-feet increments.

SIFE AND TIME

WSD 0820 MST

HMN 0730 MST

JAL 0845 MST

TABLE 1. Surface Observations taken at 0855 MST, 11 April 1980, at Don Site, 12823A LANCE, Missile Number 3717, Round Number 343 ECL.

ELEVATION	3996.83	11/MSL
PRESSURE	872.7	MRS
TEMPERATURE	22.8	<sup>2</sup> C
RELATIVE HUMIDITY	20	
DEW POINT	-1.4	°с
DENSITY	1024	GM/M <sup>3</sup>
WIND SPEED	CALM	KTS
WIND DIRECTION		DEGREES
CLOUD COVER	CLEAR	

TABLE 2										
RELEASED	FROM DON	SITE		DAD	11 April	1980			1,11 084	5 MST
RELEASE	POINT COO	RDINATE	5 (W	istm) x=	511,988.37	<b>Y</b>	- 247	,396.36	39	96.83
NOTE: W	IND DIRECTI	ONS ARE	REF	FERENCED T	O TRUE NORT	Ή.				
HEIGHTS	ARE METERS	AGL XXX	OR	FEET AGL	·					
HEIGHT AGI	DIRECTION DEGREES	SPEED KTS		HEIGHT AGL	DIRECTION DEGREES	SPEED L			NATE OF	
SFC	109	05		1860	263	20				
60	109	11		1920	264	21				<b></b>
120	150	<u>' 11                                  </u>		1980	267	23				
180	145	10		2040	273	26				
240	171	10	]	2100	266	27				
300	168	10		l			] .			
360	158	08		i		i 				!
420	164	10		!						
480	1 73	80		<u> </u>						
540	193	09			<u> </u>	<u> </u>				1
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SFC	109	05
60	109	11
120	150	11
180	145	10
240	171	10
300	168	10
360	158	08
420	164	10
480	1 73	80
540	193	09
600	203	10
660	205	09
720	195	10
780	207	09
840	205	10
900	201	09
960	204	09_
1020	202	10
1080	213	09
1140	229	08
1200	235	11
1260	239	10
1320	284	13
1380	263	13
1440	276	13
1500	275	11
1560	260	16
1620	273	18
1680	268	17
1740	260	18
1800	261	18

FEET AGL	<b></b> ·	
HEIGHT	DIRECTION	SPEED
AGL	DEGREES	<u> 1575</u>
1860	263	20
1920	264	21
1980	267	23
2040	273	26
2100	266	27
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## PILOT BALLOON MUNICIPAL MIND HATA

TABLE	3						
RELEASED	FROMD(	N SITE		<u> 11 Apri</u>	1 1980		0855 MST
RELEASED	POINT LO	OORDINATES	(WSTM)	511,988.37		247.396.36	3996.83
NOTE - III	TNO DISCOT	TONS ADE	DELL'ORNOLD	TO TRUE NORTH			
	ARE METERS		OR FEET AGE	. TRUE HORT			
	TOTRECTION		 सिंहिटिसी	PAPECTION	(PI I S	ไม่เปรียก็วิ	I DIFECTOR TUPEED
AGL	DEGREES	+TS	AGL	DEGREES	I TS	A	DOUBLES 1. IS
SFC		CALM	1860	261	23		) 
60	152	04	1920	263	23		
120	172	10	1980	266	26		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
180	159	11	2040	267	28	! ; • • • • • • •	
240	168	12	2100	263	29		,
300	177	11	2160	269	31		
360	176	11	2220	265	30		' 
420	185	12	2280	265	30		
480	199	13	2340	263	29		
540	208	14	2400	262	28		
600	213	12	2460	266	29		
660	214	13	2520	266	28		
720	225	12	2580	265	28		
780	227	11	2640	265	29		
840	237	10	2700	265	29		
900	236	09	2760	265	29		
960	242	09	2820	259	30		
1020	236	111	2880	264	29		
1080	246	10			! 		
1140	244	10					
1200	249	10	·				
1260	243	11					
1320	256	14		1			
1380	256	17					
1440	256	16		·			
1500	257	16		·	<u> </u>		
1560	261	17					
1620	262	18		<u> </u>	ļ 		
1680	264	18					
1740	263	20			1		
1800	265	22					

FEET MSL	HRS MST	
3989.00	0820	192
ALTITUDE	60	
STATION ALTITU	11 APR.	<b>ASCENSIO</b>

DATA		
SIGNIFICANT LEVEL	.020020.52	ITE SANDS
SIGNIFI	-	3

TABLE 4

GEODETIC COONDINATES 32.40043 LAT DEG 106.37033 LOH DEG

PRESSURE		TEMPE	RATURE	REL.HUM.
MILLIBAR	S MSL FEE	DEGREES	ENT	2
872.8	89.	50.9	-1.0	å
6	28		•	32.0
20	735,	•	•	'n
σ	6711.	13.1	-2.0	ŝ
Õ	60.	<b>*</b> * *	9-8-	8
53	2864.	-3.6	•	6
-	59.	-4.2	ġ	7
ů	•	-5.9		3
Ñ	98.	•	Š	•
25.	7485.	-10.8	÷	-
60	8739.	-14.4	7.	'n
•	1525.	å	•	3
•	3174.	•	•	'n
•	4151.	8	-38.1	8
•	5281.	31.	-41.1	ġ
•	6555.	34.	-	
•	7424.	Š	*	6
•	8718.	38.	-47.5	•
•	9630.	ţ0	8.6h-	ŝ
	0734.	•	,	
284.8	31885.7	9.44-		
•	4715.	•		
•	5604.	52.		
•	7007	3		
Ō	9419.	56.		
88	0667	56.		
86.	0913.	55.		
182.0	1393.	54.		
÷	2284.	52.		
	5466.	Ď.		
8	5716.	58.		
•	6257.	ŝ		
ċ	8574.	Ñ		
118.4	0386.	-		
å	2249.	ō		
ċ	865	61.		
လဲ	5569.	•		
74.2	9922.	65		
=	0703	-60.8		
76.0	1111.	-59.9		

STAND CONTROL SOFT

TABL: 4 (00H)

TEMPERALAS AIR DEWPOINE DEGREES CENTIGHAJE

PRESSURE CEOMETRIC ALTITUDE MILLIBARS MSL FEET

1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661. 1661.

62382.9 64157.6 67105.0 68069.8 717690.5 78786.2 83917.7 86636.7 87478.2

130 (200 C) (200 C) (100 C)

| STATION ALTITION ALTITION APPROPRIATE STATEMENT OF THE ST | UDE<br>15             | 3989.00 FEET<br>0820 HRS M | ET MSL<br>MST                                                               | ~                   | UPPER AIR DAT<br>1020020192<br>WHITE SANDS<br>TABLE 5 | UATA<br>VS<br>US     |                                 | 6E0DETIC<br>32.4<br>106.3 | DETIC COOKDINATES<br>32.40043 LAT DEG<br>106.37033 LON DEG |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------|-----------------------------------------------------------------------------|---------------------|-------------------------------------------------------|----------------------|---------------------------------|---------------------------|------------------------------------------------------------|
| GEOMETHIC<br>ALTITUDE<br>MSL FEET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PRESSURE<br>MILLIBARS | TEMI<br>AIR<br>DEGREES     | TEMPERATURE<br>AIR DEWPOINT<br>EGREES CENTIGRADE                            | REL.HUM.<br>PERCENT | DENSITY S<br>GM/CUBIC<br>METER                        | SPEED OF SOUND KNOTS | WIND DATE DIRECTION DEGREES(TN) | SPEED<br>KNOTS            | INDEX<br>OF<br>REFRACTION                                  |
| 3989.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 872.8                 | 20.9                       | -1.6                                                                        | 22.0                | 1031.6                                                | 6.8.8                | 120.0                           | 0.9                       | 1.000254                                                   |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 872.5                 | 20.8                       | -1.4                                                                        | 22.4                | 31.                                                   | 20                   | •                               | 0.9                       |                                                            |
| 4500.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 857.1                 | 18.8                       | 2.0                                                                         | 32.5                | •                                                     | 606.7                | 131.4                           | 3.0                       |                                                            |
| 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 842.0                 | 17.3                       | 1.0                                                                         | 33.3                | 900                                                   | 6.5.0                | 215.7                           | 1.2                       | ഹ                                                          |
| 5500.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | •                     | 16.1                       |                                                                             | 33.8                | Ė                                                     | 603.5                | 271.1                           | 3.6                       | 1.000249                                                   |
| -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | •                     | 14.9                       | •                                                                           | 34.3                | •                                                     | 662.0                | 279.5                           | 7.9                       | <b>_</b>                                                   |
| 6500.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | _                     | 13.6                       | •                                                                           | 34.8                | 99                                                    | 9.009                | •                               | 6                         | +                                                          |
| _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       | 12.3                       | å                                                                           | 35.3                | 'n                                                    | 659.1                | 200.5                           | $\sim$                    | 1.000236                                                   |
| 500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | •                     | 11.1                       | S (F)                                                                       | 35.7                | 0 10                                                  | 657.5                | 279.5                           | <b>J</b> (                | 1.000232                                                   |
| 8000.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | •                     | B (                        | ر<br>ا<br>ا                                                                 | 36.2                | •                                                     | 656.0                | 278.4                           | ~                         | 1.000227                                                   |
| 8500.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 741                   | 8<br>0<br>0                | -5.5                                                                        | 36.6                | å.                                                    | 4.400                | 279.1                           | or o                      | 1.000223                                                   |
| 0.0006                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 727                   | 7.2                        | -6.5<br>2.4.5                                                               | 37.0                | 905.8                                                 | 652.9                | 281•û<br>283-3                  | 21.0                      | 1.000219                                                   |
| 10000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 701                   | • •                        |                                                                             | 0.7.                | 878.5                                                 | 0.40                 | 261.65                          |                           | 1.000.1                                                    |
| 10500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 688                   |                            |                                                                             | 19.7                | 866.6                                                 |                      | 2000                            | ) 3                       | 1.00001                                                    |
| 0.00011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 675                   | 1.7                        | 6.6-                                                                        | 41.7                | 854.7                                                 | 9,000                | 278.5                           | 25.5                      | 1.000205                                                   |
| 11500.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 662.                  | £.                         | -10.6                                                                       | 43.6                | 843.1                                                 | 644.7                | 275.5                           | ٠ <u>.</u>                | 1.000202                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 650.4                 |                            | *•11-                                                                       | 45.6                | 831.7                                                 | 643.0                | 273.4                           | ~                         | 1.000198                                                   |
| _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2000                  | 2.5                        | 151                                                                         | 0.74                | 820.4                                                 | 641.3                | 273.4                           | <b>2</b> 0 (              | 1.000105                                                   |
| 0.00001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 614.2                 | 0 4 7                      | F . C . C                                                                   | 43.4                | 708.7                                                 | 639.8                | 7.07.7                          | _ <                       | •                                                          |
| 0.00041                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 500,000               | 2.5                        | 1001                                                                        |                     | 781.0                                                 | 0.53                 | 275.6                           | 3.0 E                     | 1.000125                                                   |
| 4500.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 8.064                 | -5.6                       | -21.8                                                                       | 26.4                | 768.7                                                 | 637.5                | 274.2                           | 37.9                      | 1.000177                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 579.5                 | -6.4                       | -23.6                                                                       | 24.0                | 756.3                                                 | 636.5                | 273.1                           | 6.04                      | 1.000173                                                   |
| 15500.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       | 4.7-                       | -24.5                                                                       | 24.0                | 244.6                                                 | 635.2                | 271.3                           | _                         | 1.000170                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 500                   | n :                        | -25.4                                                                       | 24.0                | 733.1                                                 | 634.0                | 209.5                           | å                         | 1.000167                                                   |
| 7000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       | 1.01                       | 0.00                                                                        | 7.07                | _                                                     | 652.                 |                                 | ·,                        | 1.000165                                                   |
| 7500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 525.3                 | • -                        | -24.6                                                                       | 31.0                | 697.2                                                 | 631.1                | 200.0                           | N &                       | 1.000162                                                   |
| -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 514.9                 | -12.3                      | -25.6                                                                       | 31.8                | -                                                     | h.679                | ģ                               | ;                         | 0                                                          |
| 500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | • +0                  | -13.7                      | -26.6                                                                       | 32.6                | 77.                                                   | 4                    | 200 · 4                         | •                         | 0001                                                       |
| 0006                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | •                     | -15.1                      | -27.7                                                                       | 33.0                | _                                                     | 579                  | 500.8                           | 3.                        | 001                                                        |
| 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       | -16.5                      | -28.9                                                                       | 33.0                | 57.                                                   | 6.4.2                | 67.                             | ÷                         | 1.000150                                                   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.07                  | -17.9                      | 9                                                                           | 33.0                | 9 6                                                   | 25.                  | 200.5                           | 47.4                      | 1.000147                                                   |
| 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1.00                  | 0.41                       | ֡֝֟֝֓֜֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֡֓֡֓֜֓֓֓֡֓֜֓֡֓֡֓֡֓֡֓֡֓֡֓֡֡֡֓֡֡֡֡֡֓֜֡֡֡֡֓֡֡֡֡֡֡ | 33.0                | 38.                                                   | 6.039                | Ŝ                               | ~                         | 1.000145                                                   |
| 9 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.00                  | 200                        | 25                                                                          | 33.0                | 62                                                    | 19                   | •                               | 47.5                      | 1.000142                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 440.4                 | ů.                         | 9                                                                           | 33.0                | 6.6                                                   | 617.4                | 207.4                           | ~ 1                       | <b>51</b> 090                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1001                  | 2 2                        | •<br>• u                                                                    | 000                 |                                                       | <u>.</u>             | •<br>•<br>•                     | •                         | •7                                                         |
| 24000-0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 100                   | y t                        | 7 14                                                                        | 0.00                | 7 0                                                   | 615.0                | 202.5                           | •                         | 1.000135                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       | V                          | •                                                                           | 2                   |                                                       |                      | 2                               | 6.10                      | 00013                                                      |

|                      | : TUDE U       | 33.4 D0•6      | ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;; |              | 102 01                                  | <b>4</b>       |                         |                |                  |
|----------------------|----------------|----------------|----------------------------------------|--------------|-----------------------------------------|----------------|-------------------------|----------------|------------------|
|                      | 0              | 0820 HRS M     | · · · · · · · · · · · · · · · · · · ·  |              | WHITE CAME                              | ;              |                         | 300            | 40040 L7.        |
| A SCENS OF           |                |                |                                        |              | TABLE 5 (                               | CONT)          |                         | ž<br>O         | 3/1033 EVIL UE   |
| GE JMETHIC           | PRESSURE       | X              | TEMPERATURE                            |              | DENSITY                                 | SPEED OF       | WIND DATA               | <b>1</b> A     | INUEX            |
| ALTITUDE<br>MSL FEET | MILLIBARS      | AIR<br>Degrees | DEWPOINT<br>CENTIGRADE                 | PERCENT      | GM/CUBIC<br>METER                       | SOUND<br>KNOTS | DIRECTIO<br>DEGREES(IN) | SPEED<br>KNOTS | OF<br>REFRACTION |
| 23500.0              | 411.1          | -26.3          | -37.2                                  | 34.7         | 580 • 1                                 | 612.2          | 260•3                   | 54.3           | 1.000151         |
| 4000                 | •              |                | -37.9                                  |              | 571.5                                   | 610.           | •                       | 56.2           | .0001            |
| _                    | 394.1          | 29             | -39.0                                  | 37.4         | •                                       | 909            | 259.6                   | 56.2           | · N              |
| _                    | 385.8          | m              | <b>サ・0</b> サー                          | 36.5         | •                                       | 607            | 259.8                   | 56.5           | ūΨ               |
| _                    | 377.6          | <b>PO</b> 1    | -41.2                                  | 37.9         | 244.6                                   | 605            | 200.0                   | 58.4           | 0001             |
| 26000.0              | 369.6          | 133.0          | 141.5                                  | かい           | 536.1                                   |                | 251.6                   | 60.0           | 1.0001.0         |
|                      | 353.9          | 35             | -43.3                                  | 6.04<br>4.04 | 518.0                                   | 601            | 204.6                   | 60.2           | 1.000119         |
| _                    | 346.2          | -35.9          | 6.55-                                  | 38.8         | 508.4                                   | 600            | 205.4                   | 7              | , 0              |
| -                    | 338.7          | •              | 0.94-                                  | 37.7         | -                                       | 596            | 205.7                   | 55.7           | 1.000112         |
| _                    | 331.4          | n              | 0.44-                                  | 36.5         | £•06#                                   | 597            | 204.0                   | 2.55           | 1.000110         |
| _                    | 324.1          | -38.8          | 148.2                                  | 35.7         | 481.7                                   | 590.           | 203.6                   | 55.9           | 1.000108         |
|                      | 317.0          | 0.04-          | 60                                     | ٦.           | -                                       | 594            | 202.8                   | 57.0           | 1.000100         |
| 20000                | 310.0          | -41.1          | ,<br>m                                 | *            | 65                                      | 593            | 6.102                   | 60.2           | 1.900194         |
|                      | 202.2          | -42.1          | -63.6                                  | ***·/        | 457.1                                   |                | 201.0                   | 63.1           |                  |
| 0.00016              | 4.000<br>0.000 | 1000           |                                        |              | •                                       |                | 5.00X                   | # CO           | 1.000100         |
|                      | 283.3          | 140.0<br>141.0 |                                        |              | 1 · 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 · |                | 2.64.0<br>0.64.0        | 50.4<br>50.4   | 7. 0000.T        |
|                      | 276.9          | -46.1          |                                        |              | 4.104                                   |                | 2000                    | 20.00          |                  |
| 33000.0              | 270.6          | -47.3          |                                        |              |                                         | 565.4          | 250.4                   | 63.7           | 1.000043         |
|                      | 564.4          | -48.5          |                                        |              | 410.1                                   |                | 258.9                   | 65.6           |                  |
|                      | 258 • 4        | 8.64-          |                                        |              | 405.9                                   |                | 259•3                   | 67.0           | 1.000090         |
| 34500.0              | 252.5          | -51.0          |                                        |              | 395.9                                   |                | 259.0                   | 67.8           |                  |
|                      | 7.40.7         | 1010           |                                        |              | 3.58.<br>3.58.<br>5.58.                 |                | 7.002                   | 68.2           |                  |
| 36000.0              | 235.4          | 1050<br>1050   |                                        |              | 3000                                    |                | 202                     | 66.13          | 1 - 0000c5       |
|                      | 229.9          | -54.4          |                                        |              | 366.1                                   |                | 200-3                   | 66.2           | 1.000002         |
|                      | 224.5          | -55.5          |                                        |              | 359.3                                   |                | 269.3                   | 66.1           | 1.00000          |
|                      | 219.2          | -55.7          |                                        |              | 351.2                                   |                | 269.5                   | 66.3           | 1.000078         |
|                      | 0.912          | -56.0          |                                        |              | 143.<br>143.                            |                | 270.5                   | 66.7           | 1.00001          |
| 300000               | 0.402          | 2995           |                                        |              | 335.5                                   |                | 271.3                   | 66.5<br>15     | 1.000075         |
|                      | 100.2          | 900            |                                        |              | 3500                                    |                | 27.5                    | n :            | 1.000073         |
|                      | 194.5          | 900            |                                        |              | 313.1                                   | 57.5           | 273.0                   | D . 1          | 1/0000-1         |
|                      | 189.9          | -56.8          |                                        |              | 4005<br>805<br>8                        |                | 273.4                   | ,              | 0.00001          |
|                      | 185.4          | 5.             |                                        |              | 296.7                                   | *              | 273.4                   | ) J            | 1.000ur          |
| 150                  | :              | -54.6          |                                        |              | 88.                                     |                | 273.3                   | Serve)         | 1.000004         |
| 2000                 | •              | 3.             |                                        |              | Œ                                       | 7              | 72.4                    | 67.            | 1.000000         |
| 2500                 |                | 52             |                                        |              | 'n                                      | 5,019          | 272.5                   | •              | 1.00001          |
| • <b>0</b> 0 0       | <b>3</b>       | -53.6          |                                        |              | •                                       | •              | 272.4                   | 1.69           | 1.000000         |

WAS USED IN THE INTERPOLATION. AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE

|                        | ASCENSION NO. 192 |                                                                    |                        |         | L                                                                    | Í                  |                                                             | 106.37033    | 37033 LON DEG    |
|------------------------|-------------------|--------------------------------------------------------------------|------------------------|---------|----------------------------------------------------------------------|--------------------|-------------------------------------------------------------|--------------|------------------|
|                        | DDFCCHRE          | TFM                                                                | TEMPEDATINE            | H. H.   | TABLE 5 ((                                                           | (CONT)             | AING GATA                                                   | 4            | INDEX            |
| ALTITUDE<br>MSL FEET I | MILLIBARS         | AIR<br>DEGREES                                                     | DEWPOINT<br>CENTIGRADE | PERCENT | J                                                                    | 5                  | DIRECTIO.<br>DEGREES(TN)                                    | SPEED        | OF<br>REFRACTION |
| <b>-</b>               | 62.3              | -58.3                                                              |                        |         | 101.1                                                                | 571.1              | 305.0                                                       | 22.5         | 1.000023         |
|                        | 6.09              | -56.8                                                              |                        |         |                                                                      | 7.3                | 308.9                                                       | ċ            |                  |
|                        | 4.00              | -56.9                                                              |                        |         | •                                                                    | 572.8              | 317.0                                                       | 16.3         |                  |
|                        | 58.0              | -57.7                                                              |                        |         | 93.8                                                                 | 571.8              | 331.0                                                       | 13.1         | .0000            |
|                        | 56.6              | -58.5                                                              |                        |         | •                                                                    | 570.7              | 338.1                                                       | 10.2         | 1.000020         |
| _                      | 55.3              | -59.3                                                              |                        |         | 0.06                                                                 | 569.7              | 349.7                                                       | 7.7          | 0000             |
| _                      | 54.0              | -60.1                                                              |                        |         | 88.2                                                                 | 5 <sub>0</sub> 8.6 | 7.6                                                         | ٠            | 30000•           |
| _                      | 52.7              | -60.9                                                              |                        |         | 86.5                                                                 | 567,5              | オ・ナナの                                                       | ស<br>មា<br>• | •                |
| _                      | 51.4              | -60.6                                                              |                        |         | 84.3                                                                 | 5c8.0              | 594.0                                                       | æ<br>2       | .0000            |
| _                      | 50.2              | ċ                                                                  |                        |         | 82.0                                                                 | 5c8.8              | 257.6                                                       | •            | .0000            |
| _                      | 49.0              | -29.4                                                              |                        |         | 79.8                                                                 | 5.49.6             | 225.1                                                       | 2.0          | .0000            |
| _                      | 47.8              | -28.8                                                              |                        |         | 77.7                                                                 | £10.4              | 101.4                                                       | 2.5          | •00001           |
| _                      | 46.7              | -58.5                                                              |                        |         | 75.7                                                                 | 571.2              | 120.6                                                       | •            | 10000            |
|                        | 42.6              | -57.6                                                              |                        |         | 73.7                                                                 | 571.9              | 106.2                                                       | 5.9          | •                |
|                        | ທີ :              | -57.0                                                              |                        |         | 71.7                                                                 | 572.7              | 96. <b>3</b>                                                | 80           | 10000            |
|                        | 7 · M ·           | -56.4                                                              |                        |         | 69.8                                                                 | 573.5              | 95.0                                                        | 10.2         | 10000            |
|                        | t                 | 155<br>155<br>155<br>155<br>155<br>155<br>155<br>155<br>155<br>155 |                        |         | 68.0                                                                 | 574.3              | 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0 | 101          | 10000.           |
|                        |                   | 0.00                                                               |                        |         | 7 · 00                                                               | 0.470              | 0.4.68<br>1.7.4                                             |              | 1.000015         |
|                        |                   | 100.                                                               |                        |         | , 100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100 | 574.0              | 82.0                                                        | 10.8         | 1.00001          |
|                        | 38.6              | -55.8                                                              |                        |         | 61.8                                                                 |                    | 77.5                                                        | 11.7         | .0000            |
| _                      | 37.7              | -55.8                                                              |                        |         | <b>9.09</b>                                                          |                    | 73.7                                                        | 12.6         | 100001           |
| _                      | 36.8              | -55.9                                                              |                        |         | 59.0                                                                 |                    | 711.7                                                       | 13.3         |                  |
| _                      | 35.9              | -55.9                                                              |                        |         | 57.6                                                                 |                    | 6.69                                                        | 14.0         | .00001           |
| _                      | 35.1              | -56.0                                                              |                        |         | 56.3                                                                 | 574.1              | 68.2                                                        | 14.7         | 1.000013         |
| ٠.                     | 34.2              | -56.0                                                              |                        |         | 24.9                                                                 |                    | 77.5                                                        | 15.7         | •                |
| _                      | 3.00              | -56.1                                                              |                        |         | 53.7                                                                 | 274.0              | 85.7                                                        | 17.1         | · 000001         |
| _                      | 32.7              | -56.1                                                              |                        |         | 52.4                                                                 |                    | 95.6                                                        | 18.9         |                  |
| _                      | 31.9              | -56.2                                                              |                        |         | 51.2                                                                 |                    | 90.96                                                       | 20.0         | •                |
| _                      | 31.1              | -55.8                                                              |                        |         | 6.64                                                                 |                    | 6.66                                                        | 21.0         | •                |
| _                      | 30.4              | -55.1                                                              |                        |         | 48.6                                                                 | 575.3              | 103.0                                                       | 25.2         | •                |
| _                      | 29.7              | -24.5                                                              |                        |         | ~                                                                    |                    | 105.6                                                       | 21.3         | •                |
| _                      | 29.0              | -54.1                                                              |                        |         | 1.94                                                                 | 576.6              | 108.6                                                       | 19.5         | •                |
| _                      | 28.3              | n                                                                  |                        |         | 'n                                                                   | 577.2              | 112.2                                                       | 17.7         | 1.000010         |
| _                      | 27.7              | -53.2                                                              |                        |         | 43.9                                                                 | 577.8              | 115.7                                                       | 16.6         | •                |
| _                      | 27.0              | -52.8                                                              |                        |         | -                                                                    | 578.4              | 119.6                                                       | 16.2         | 1.000010         |
| 81500.0                | 26.4              | -52+3                                                              |                        |         | -                                                                    | 578.9              | 121.6                                                       | 15.8         | 1.000009         |
| _                      | 25.8              | ÷                                                                  |                        |         |                                                                      | 579.5              | 143.5                                                       | 15.3         | 1.00000          |
| 0                      | 25.2              | -51.4                                                              |                        |         | 39.6                                                                 | 5,0.1              | 115.9                                                       | 13.7         | 1.000009         |
| _                      | 3                 |                                                                    |                        |         |                                                                      |                    |                                                             |              |                  |

UPPER AIR LATA 1020020192

JEODETIC COONDINATES 32.40043 LAT LEG 106.37033 LON DEG 800000 • 1 .00000 .000000 •00000 .00000 • 000005 •00000· .00000 •000000• •00000• •000000• •000000• •000000• •0000n• 900000 .00000 .000000 ..000005 • 00000 .00000 .00000· .00000 .00000 .00000 .00000 .00000 +00000• +00000. **\***00000• **\***00000• •00000• +000000 **\*00000** +00000+ REFRACTION 9.8 9.7 SPEED KNOTS WIND DATA DIRECTIO, DEGREES(TN) 87.9 82.0 76.6 77.8 63.9 02.8 05.6 75.9 81.7 167.1 89.4 94.3 98.7 65.0 70.4 0.40 74.0 SPEEU OF 561.6 561.2 560.8 560.4 569.0 569.2 SOUND TABLE 5 (CONT) WHITE SANUS 36.0 35.2 34.4 33.7 23.3.3 222.7 222.7 221.6 21.2 200.7 200.2 19.8 18.5 17.6 17.6 16.8 REL.HUM. DENSITY PERCENT GM/CUBIC METER AIR DEWPOINT MILLIBARS DEGREES CENTIGRADE TEMPERATURE STATION ALIITUDE 3989.00 FEET MSL 11 Apr. 80 1.44-7 6.44-8.44--44.7 -44.5 9.44-9.44-\*\*\*\* -44.5 AIR PRESSURE 22.4 21.9 21.4 20.9 19.5 11.8 11 APR. 80 ASCENSION NO. 192 GEOMETRIC ALTITUDE MSL FEET 84000.0 85000.0 85500.0 86000.0 670000 875000 880000 885000 890000 990000 93000.0 93500.0 94000.0 95000.0 95500.0 96000.0 97000.0 97500.0 98000.0 100500.0 101000.0 101500.0 90500.0 91000.0 91500.0 96500.0 0.00066 99500.0 0.00000 86500.0 92500.0

|                                                                      | SHAVIUMOUS SLIFE |
|----------------------------------------------------------------------|------------------|
| MANDA: "L.VELS<br>1020020134<br>WHITE SANLS                          | TABIF 6          |
| STATION ALTITUDE 3989.00 FEET HIS<br>ASCENSION NO. 192 0820 HRS MIST |                  |

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION. 256.4 85.4 104.3 113.6 96.2

| STATION ALTITUDE 4126.59 FEET MSL | 730 HRS MST |         |
|-----------------------------------|-------------|---------|
| JE 412                            | 0           | 108     |
| ALTITU                            | 80          | 02<br>z |
| TATION                            | 1 ApR.      | SCENSIO |

| DATA                                       |         |
|--------------------------------------------|---------|
| SIGNIFICANT LEVEL<br>102010108<br>HOLLOMAN | TABLE 7 |

GEODETIC COONDINATES 32.88865 LAT DEG 106.09965 LON DEG

| PRESSURE  | GEOMETRIC | TEMPE   | EMPERATURE | REL.HUM. |
|-----------|-----------|---------|------------|----------|
| MILLIBARS | MSL FEET  | DEGREES | CENTIGRADE | FREEN    |
| 68        | 9         | 16.8    | •          | 0.44     |
| ė         | 738.      | 16.4    | 2.8        | ċ        |
| 93.9      | 663       | •       | •          | •        |
| 0.00      | 0045.     | •       | ŝ          | :        |
| 37.0      | 2532.     | •       | -          | 3        |
| 85.3      | 4714.     | -8.5    | 18.        | ;        |
| 68.5      | 5457.     | ě       |            | •        |
| 0.00      | 8688.     | -15.5   | -;         | ė        |
| 0.00      | 4089      |         | ~          | ċ        |
| 84.4      | 5022.     | -30.8   | 8          | 8        |
| 62.2      | 6399.     | -35.3   | æ          | 5        |
| 51.0      | 7117.     | -36.7   | •          | å        |
| 59.9      | 8522.     | -39.4   | ŝ          | •        |
| 0.00      | . 4490    | -43.6   | -50.3      |          |
| 50.0      | 4606.     | -52.1   |            |          |
| 18.5      | 7443.     | -57.6   |            |          |
| 6.70      | 8479.     | -56.8   |            |          |
| 0.00      | 9286.     | •       |            |          |
| 92.6      | .6480     | •       |            |          |
| 72.3      | 2413.     | -55.6   |            |          |
| 9.59      | 3250.     | •       |            |          |
| 20.0      | 5322.     | •       |            |          |
| 5.9       | 5898.     | •       |            |          |
| 6.3       | 6889.     | •       |            |          |
| 1.7       | 8020.     | •       |            |          |
| 1.1       | 9760.     | -57.4   |            |          |
| 9.7       | 2205      | ċ       |            |          |
| •         | 53709.7   | 8.09-   |            |          |
| 8.2       | 6283.     | -       |            |          |
| 0.6       | 8512.     | ٥       |            |          |
| 3.8       | 9686      | Ġ       |            |          |
| 0.0       | . 4860    | -61.2   |            |          |
| 1.4       | ů         | -57.4   |            |          |
| 3.9       | 6390.     | -61.3   |            |          |
| 3•3       | 6621.     | -57.6   |            |          |
| 0.0       | 7952      | 8       |            |          |
| 7.9       | 9504      | -58.9   |            |          |
| 6.3       | 984.      | -54.4   |            |          |
| 33.1      | •         | -56.7   |            |          |
| 30.0      | 78669.8   | -55.5   |            |          |
|           |           |         |            |          |

| DE 4126.59 FEET MSL<br>0730 HRS MST<br>108        |
|---------------------------------------------------|
| 7 m 3                                             |
| STATION ALTITUDE<br>11 APR. 80<br>ASCENSION NO. 1 |

SIGNIFICANT LEVEL DATA 1020010108 HOLLOMAN

TABLE 7 (CONT)

REL.HUM. PERCENT TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET

-51.1 -52.6 -51.8

83423.2 85983.1 87332.0 92165.1

24.0 21.3 20.0 16.0

GEODETIC COORDINATES 32.bu865 LAT DEG 106.39965 LON DEG

| TEMPERATURE REL.HUM. DENSITY SPEILER LOCKNON L |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION AN, LES.

| DETIC COORDINATES<br>32.64865 LAT DEG<br>106.09965 LON DEG | INDEX<br>OF<br>REFRACTION                   | 1.000129 | 1000    |         | 00017   | .00012  | 1.000119 | .00011  | 1.000115 | 1.000112 | 1.000110  | 1.000108  | 1.000106  | 1.000104    | 1.000100 | 0000000 | 1 • 000097 | 1.000095 | 1.000093 | 1.000091 |            | 1.30000.8 | 1.0000u6   | 1.000065 | 1.000003 | 7900001   | 1.00003 | 1.00001 | 1.000074 | 1.000673 | 1.0000.1 | 1.000069 | 1.000067 | 1.000066 | 1.000064      | 1.000003 | 1.00000-01 | 1.000059 | 1.000058 |
|------------------------------------------------------------|---------------------------------------------|----------|---------|---------|---------|---------|----------|---------|----------|----------|-----------|-----------|-----------|-------------|----------|---------|------------|----------|----------|----------|------------|-----------|------------|----------|----------|-----------|---------|---------|----------|----------|----------|----------|----------|----------|---------------|----------|------------|----------|----------|
| GEODETIC<br>32.8<br>106.0                                  | NTA<br>SPEED<br>KNOTS                       | 59.7     | 63.2    | 65.0    | 65.0    | 8.49    | 6.49     | Š       | 65.7     | 64.3     | 61.9      | 200       | 34.5      | V 1         | 68.0     |         | 72.3       | 73.5     | 75.1     | 78.3     | 81.6       | 81.1      | 80.3       | 77.9     | 74.5     | 71.0      | 70.5    | 70.0    | 0.69     | 67.8     | 67.1     | 9        | S        | 65.5     | 0.49          | 61.6     | 59.5       | •        | 54.4     |
|                                                            | WIND DAT                                    | 259.3    | 258.6   | 258•1   | 258.0   | 258.2   | 258.9    | 259.7   | 200·5    | 260•4    | 259.7     | 0.662     | 2.0862    | 257.3       | 256.9    | 256.4   | 255.B      | 1.552    | 254.5    | 524.4    | 254 • 3    | 254 • 8   | 255.4      | 256.2    | 4070     | 2.84.0    | 253.4   | 250.0   | 258.8    | 0.652    | 200.2    | 201.5    | 263.5    | 265.6    | 267.4         | 269.0    | 270.7      | 272.3    | 274.0    |
| IR LATA<br>10108<br>AN<br>8 (CONT)                         | SPEED OF<br>SOUND<br>KNOTS                  | 9.609    | 4.4     | 606.6   | 9.4.9   | 602.5   | 6,000    | 599.4   | 598.5    | 596.9    | 595.7     | 3.460     | 293.42    | 6.140       |          | 0 C a C | 5,46.5     | 585.1    | 563.7    | 582.3    | $5_{80.9}$ | 579.5     | 578.2      | 576.9    | 575.     | 1 - 1 - W | 572.0   | 572.5   | 573.0    | 572.1    | 572.1    | 573.4    | 574.8    | 575.6    | 575.2         | 574.9    | 574.8      | 5,0,5    | 576.1    |
| UPPER AIR LATA<br>1020319108<br>HOLLOMAN<br>TABLE 8' (CONT | DENSITY S<br>GM/CUBIC<br>METER              | 571.3    | -       | 552+8   | 244.7   | 536.7   | 528.5    | 519.2   | 510.0    | •        | 492.0     | N. CO.    | の・サンナ     | 157.5       | 10000    | 441.0   | 433.2      | 425.4    | 417.7    | 410.2    | 402.8      | 395.5     | 388.0      | 380.6    | 36.00    | 25.000    |         | 343.1   | 334.5    | 327.6    | 319.8    | 310.8    | 302.1    | _        | 287.5         | 281.1    | 574.6      | •        | 260.7    |
| _                                                          | REL.HUM.<br>PERCENT                         | 40.3     | 44.5    | 47.8    | 57.4    | 67.2    | 73.2     | 64.1    | 58.7     | 54.5     | 2000      | 7 • 6     | 40.0      |             | 45.8*    | 36.9*   | 30.9**     | 25.0**   | 19.1**   | 13.1**   | 7.2**      | 1.3**     |            |          |          |           |         |         |          |          |          |          |          |          |               |          |            |          |          |
| IT MSL<br>MST                                              | TEMPERATURE<br>R DEWPOINT<br>EES CENTIGRADE | -37.6    | -48.0   | -38.2   | -37.9   | -37.9   | -38.6    | 8.05-   | -42.5    |          | V • C • V | ^ *       |           | * O * O * E | -51.0    | -54.0   | -56.4      | -59.0    | -62.0    | -65.7    | -700-7     | -82.5     |            |          |          |           |         |         |          |          |          |          |          |          |               |          |            |          |          |
| 4126.59 FEET M<br>0730 HRS MST                             | TEMF<br>AIR<br>Degrees                      | -28.4    | 9.00-   | -30.7   | -32.4   | -34.0   | -35.5    | -36.5   | -37.4    | 138.4    | # . O . I | C • O • I | 7 * T * T | E 4 2 4     | 3071     | -45.4   | -46.5      | -47.6    | 3        | #        | 2          | S         | <b>က</b> ( | 55.50    | A 1/     |           |         | -57.2   | -56.8    | -57.5    | 57.      | -56.5    | -55.0    | -24.0    | <b>~</b> 55•1 | -22.     | -52.4      | 124.4    | -24.2    |
|                                                            | PRESSURE<br>MILLIBARS                       | 401.5    | 304.1   | 384.8   | 376.6   | •       | _        |         | •        | 337.6    | 3000      | 115.0     |           | 3000        | 295.1    | 288.4   | 281.9      | 275.5    | 269.2    | 263.1    | 257.1      | 251.2     | 245        | 234.0    | 2000     | 223.1     | 217.9   | 212.7   | 207.7    | 202.8    | 198.0    | 193.3    | 1881     | 7 · + 27 | 179.9         | 175.7    | •          | 167.6    | 163.0    |
| STATION ALTITUDE<br>11 APR. 80<br>ASCENSION NO. 1          | GEUMETRIC<br>ALIITUDE<br>MSL FEET           | 24000.0  | 24500.0 | 25000.0 | 25500.0 | 26000.0 | 26500.0  | 27000.0 | 27500.0  | 28000.0  | _         | _         | \$0000k   |             | 1600017  |         | 32000.0    | 32500.0  | 33000.0  | 33500.0  | 34000.0    | 34500.0   | 35000•0    | 35500.0  | 36:00.0  | 37,000.0  | 37500.0 | 39000.0 | ÷        | ċ        | _        | _        |          | 900      | 9             | 42000.0  | 500°       | 200      | 43204.0  |

AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION. \*

| STATION ALTITUDE     |           | 4126.59 FEET MSL<br>0730 HRS MST | IT MSL<br>MST          | J        | UPPER AIR DATA<br>1020010108<br>HOLLOMAN | DATA<br>08         |                          | 6E0DET1        | NE CE            |
|----------------------|-----------|----------------------------------|------------------------|----------|------------------------------------------|--------------------|--------------------------|----------------|------------------|
| ASCENSION NO         | NO. 108   |                                  |                        |          | TABLE 8 (0                               | (CONT)             |                          | 106.           | 09965 LON DEG    |
| GEOME THIC           | PRESSURE  | TEMP                             | TEMPERATURE            | REL.HUM. | DENSITY                                  | SPEED OF           | WIND DATA                | T.             | INUEX            |
| ALTITUDE<br>MSL FEET | MILLIBARS | AIR<br>Degrees                   | DEWPOINT<br>CENTIGRADE | PERCENT  | J                                        | SOUND<br>KNOTS     | DIRECTION<br>DEGREES(TN) | SPEED<br>KNOTS | OF<br>REFRACTION |
| 44000.0              | 159.8     | -55.6                            |                        |          | 255.8                                    | 574.7              | 275.7                    | 54.3           | 1.000057         |
| •                    | 156.0     | -56.7                            |                        |          | 51.                                      |                    | 277.4                    | 54.4           | 1.000056         |
| _                    | 152.3     | -57.8                            |                        |          | 246.4                                    |                    | 278.7                    | 56.4           | 1.000055         |
| -                    | \$        | -58.2                            |                        |          | 241.1                                    |                    | 279.8                    | 59.1           | 1.000054         |
| _                    | 145.2     | -57.7                            |                        |          | 234.7                                    |                    | 281.2                    | 61.4           | 1.000052         |
| -                    | 141.7     | 58.2                             |                        |          | 229.7                                    | 571.2              | 282.6                    | 63.6           | 1.000051         |
| 47500.0              | 35        | -59.1                            |                        |          | 219.7                                    |                    | 285.6                    | 66.3           | 0.0000.1         |
| . =                  | 31.       | -59.5                            |                        |          | 214.9                                    | 5.9°5              | 247.1                    | 67.0           | 1.000048         |
| -                    | ø         | -58.9                            |                        |          | 209.3                                    | 570.2              | 288.0                    | 67.1           | 1.000047         |
| -                    | •         | -58.3                            |                        |          | 203.7                                    | 571.0              | 283.9                    | 67.1           | 1.000045         |
| <b>:</b>             | ~ 1       | -57.7                            |                        |          | 198.3                                    | 571.8              | 209.0                    | 62.9           | 1.000044         |
| ġ                    | 119.7     | -57.7                            |                        |          | 193.6                                    | 571.8              | 288.5                    | 63.8           | 1.000043         |
| 50500                | 16.       | -58.4                            |                        |          | 189.5                                    | 570.9              | 288.1                    | 4              | 1.000042         |
| 0.00015              |           | -59.0                            |                        |          | 185.6                                    | 570.1              | 287.8                    | 56.9           | 1.000041         |
| 250000               | 108.7     | F-04-                            |                        |          | 177.0                                    |                    | 28.00                    | u r            | 0.00000          |
| 52500.0              | 90        | -60.6                            |                        |          |                                          |                    | 290.5                    | 2.5            | 1.000040         |
| 53000.0              | 03        | -60.7                            |                        |          | 169.7                                    |                    | 293.3                    | 8              | .00003           |
| 53500.0              | 5         | -60.8                            |                        |          | 165.7                                    |                    | 596.9                    | 34.9           | 1.000037         |
| 5#000°0              | 98.6      | 6.09-                            |                        |          | 161.8                                    | 567                | 299.3                    | 33.3           | 1.000036         |
| 54500.0              | 2.96      | -61.0                            |                        |          | 158.0                                    | 567                | 3000                     | 32.9           | 1.000035         |
| 55500.0              | 93.19     | -6101                            |                        |          | 7000                                     | 507.               | 301.8<br>0.50£           | 32.6           | 1.000034         |
| 56000.0              |           | -61.2                            |                        |          | 147.0                                    | 200                | 302 • 1                  | 32.1           | 1.0000.1         |
| 56500.0              | •         | -61.8                            |                        |          | 143.8                                    |                    | 303.7                    | 30.7           | 1.000032         |
| 57000.0              | •         | -65.9                            |                        |          | 141.1                                    |                    | 305.7                    | 29.0           | 1.0000.1         |
| _                    | •         | 164.1                            |                        |          | 138.4                                    |                    | 307.8                    | 27.5           | 1.0000.1         |
| 58500.0              | 0.67      | 165.4                            |                        |          | 1556                                     | 561.0              | 309.6                    | 25.46          | 000001           |
| _                    | 77.1      | 0.49-                            |                        |          | 128.4                                    |                    | 313.4                    | 24.7           | 1.000009         |
| _                    | 75.3      | -61.5                            |                        |          | 123.8                                    |                    | 315.2                    | 23.7           | 1.000028         |
| _                    | 73.4      | -59.7                            |                        |          | 119.8                                    | 569.2              | 317.2                    | 22.6           | 1.000027         |
| _                    | •         | <b>+.09-</b>                     |                        |          | 117.4                                    | 568.2              | 319.0                    | 21.1           | 1.000026         |
| •                    | •         | -61.2                            |                        |          | 115.0                                    | 507.2              | 321.1                    | 19.7           | 1.000026         |
| :.                   | ė,        | -600-5                           |                        |          | 111.8                                    | 5 <sub>5</sub> 8.1 | 323.0                    | 18.0           | 1.000025         |
| •                    | ٥         | -59.8                            |                        |          |                                          | 569.1              | 340.6                    | ٠              | 1.000004         |
| 2500.                | <u>.</u>  | 1-66-                            |                        |          | ភ្នំ ម                                   | •                  | 350.9                    | •              | 1.00000, 4       |
| 2000                 | ÷         | 1580                             |                        |          | •                                        | •                  | 35.                      | 12.2           | 1.0000.3         |
| 0.0050               | 2.70      | 1.10                             |                        |          | 100.5                                    | 571.9              | 3+0+5                    | 10.3           | 1.000022         |
|                      |           |                                  |                        |          |                                          |                    |                          |                |                  |

| 97.9 571.6 345.4 8.6 1.000022 95.9 570.7 341.6 7.3 1.000022 95.9 570.7 341.6 5.1 1.000022 95.9 570.7 341.6 3.5 1.000022 95.9 570.7 341.6 3.5 1.000022 95.9 571.7 345.3 1.9 1.000022 95.9 571.7 345.3 1.9 1.000022 95.9 571.7 345.3 1.9 1.000019 96.9 571.0 87.9 1.9 1.000019 96.9 571.0 87.9 1.9 1.000019 96.9 571.0 87.9 1.0 1.000019 96.9 571.0 87.9 1.0 1.000019 96.9 572.9 84.3 12.3 1.000019 96.9 572.9 84.3 12.2 1.000019 96.9 572.9 84.3 12.2 1.000019 96.9 572.9 84.3 12.2 1.000019 96.9 572.9 84.3 12.2 1.000019 96.9 572.9 84.3 12.2 1.000019 96.9 572.9 84.3 12.9 14.6 1.000019 97.7 573.7 84.3 12.9 14.6 1.000019 97.7 574.2 574.2 84.0 16.3 14.0 16.3 1.000019 97.7 574.2 84.0 16.3 14.0 16.3 1.000019 97.7 574.2 573.2 84.0 16.3 14.0 16.3 1.000019 97.7 574.2 574.2 84.0 16.3 17.3 1.000019 97.7 574.2 574.2 84.0 16.3 17.3 1.000019 97.7 574.2 574.2 84.0 16.3 17.3 1.000019 97.7 574.2 574.2 84.0 16.3 17.3 1.000019 97.7 574.2 574.2 84.0 16.3 17.3 1.000019 97.7 574.2 574.2 84.0 16.3 17.3 1.000019 97.7 574.2 574.2 10.2 10.3 14.0 16.3 17.3 1.000019 97.7 574.2 574.2 17.3 1.000019 97.7 574.2 574.2 17.3 1.000019 97.7 574.2 17.3 1.000019 97.7 574.2 17.3 1.000019 97.7 574.2 17.3 1.000019 97.7 574.2 17.3 1.000019 97.7 574.2 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | TABLE 8 REL.HUM. DENSITY PERCENT GM/CUBIC |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| 570.7<br>569.7<br>569.7<br>569.7<br>569.7<br>561.8<br>567.8<br>571.7<br>571.7<br>571.7<br>571.0<br>571.0<br>571.0<br>571.0<br>571.0<br>571.0<br>570.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>6     | -                                         |
| 569.7<br>568.8<br>567.8<br>567.8<br>567.8<br>571.7<br>331.2<br>571.7<br>346.3<br>571.8<br>571.9<br>570.2<br>570.2<br>60.2<br>570.2<br>60.2<br>60.2<br>60.2<br>60.2<br>60.2<br>60.2<br>60.2<br>60.2<br>60.2<br>60.2<br>60.2<br>60.2<br>60.2<br>60.2<br>60.2<br>60.2<br>60.2<br>60.2<br>60.2<br>60.2<br>60.2<br>60.2<br>60.2<br>60.2<br>60.2<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3<br>60.3     |                                           |
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| 567.8 325.8 4.2 571.7 346.3 11.9 11.9 571.0 846.3 11.9 11.9 571.0 846.3 11.9 571.0 847.5 11.9 571.0 847.4 11.9 571.0 847.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.4 11.0 875.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                           |
| 5.69.4  571.7  346.3  571.4  47.5  1.9  571.0  83.1  570.2  83.1  570.2  87.4  571.1  88.9  571.9  88.9  575.4  575.2  88.9  575.2  575.2  88.0  575.3  88.0  575.3  88.0  575.4  88.0  575.4  88.0  575.4  88.0  575.4  68.0  575.4  68.0  576.4  68.0  576.4  68.0  576.4  68.0  576.4  68.0  576.4  68.0  576.4  68.0  576.4  68.0  576.4  68.0  576.4  68.0  576.4  68.0  576.4  68.0  576.6  68.0  576.6  68.0  576.6  68.0  576.6  68.0  576.6  68.0  576.6  68.0  576.6  68.0  576.6  68.0  576.6  68.0  576.6  68.0  576.6  68.0  576.6  68.0  576.6  68.0  576.6  68.0  576.6  68.0  576.6  68.0  576.6  68.0  576.6  68.0  576.6  68.0  576.6  68.0  576.6  68.0  576.6  68.0  576.6  68.0  576.6  68.0  576.6  68.0  576.6  68.0  576.6  68.0  576.6  68.0  576.6  68.0  576.6  68.0  576.6  68.0  576.6  68.0  68.0  68.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.0  69.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                           |
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| 571.4<br>571.0<br>571.0<br>571.0<br>570.2<br>63.1<br>570.2<br>63.1<br>570.2<br>63.1<br>570.2<br>63.1<br>63.1<br>63.1<br>63.2<br>63.2<br>63.2<br>63.2<br>63.2<br>63.2<br>63.2<br>63.3<br>63.3<br>63.4<br>63.3<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4<br>63.4   |                                           |
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| 571.9 68.5 573.7 68.6 575.8 675.8 74.1 12.3 575.8 74.1 12.7 12.3 575.8 74.1 12.7 12.7 12.7 12.7 12.7 12.7 12.7 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                           |
| 572.8 86.6 12.3 12.2 575.8 86.6 12.2 12.0 12.2 12.0 12.2 12.0 12.2 12.0 12.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                           |
| 573.7  674.5  575.4  74.1  12.0  575.8  74.1  12.7  12.7  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74.9  74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                           |
| 574.5<br>575.4<br>575.4<br>575.6<br>76.9<br>575.8<br>76.9<br>574.1<br>574.1<br>573.7<br>64.3<br>573.7<br>64.3<br>573.7<br>64.3<br>573.8<br>68.0<br>573.8<br>68.0<br>573.8<br>68.0<br>573.8<br>68.0<br>573.8<br>68.0<br>573.8<br>68.0<br>573.8<br>68.0<br>573.8<br>68.0<br>573.8<br>68.0<br>573.8<br>68.0<br>573.8<br>68.0<br>573.8<br>68.0<br>573.8<br>68.0<br>574.8<br>574.8<br>575.8<br>69.0<br>576.8<br>576.8<br>69.0<br>16.8<br>576.8<br>576.8<br>69.0<br>16.8<br>17.1<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>578.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8<br>579.8                                                                                           |                                           |
| 575.8<br>575.8<br>575.8<br>574.9<br>574.1<br>573.7<br>64.3<br>574.1<br>64.3<br>14.6<br>573.5<br>68.0<br>15.3<br>14.6<br>14.6<br>14.6<br>14.6<br>14.6<br>14.6<br>14.6<br>14.6<br>14.6<br>14.6<br>14.6<br>14.6<br>14.6<br>14.6<br>14.6<br>14.6<br>14.6<br>14.6<br>14.6<br>14.6<br>14.6<br>14.6<br>16.3<br>16.1<br>16.1<br>16.1<br>16.1<br>16.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1<br>17.1   |                                           |
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| 578.2 102.6 18.7 1<br>578.8 102.0 19.3 1<br>579.4 101.3 19.9 1<br>560.0 95.8 19.2 1<br>560.5 89.4 18.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                           |
| 578.8 102.0 19.3 1<br>579.4 101.3 19.9 1<br>560.0 95.8 19.2 1<br>560.5 89.4 18.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                           |
| 9.5 579.4 101.3 19.9 1<br>8.5 520.0 95.8 19.2 1<br>7.5 560.5 89.4 18.7 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                           |
| 8.5 560.0 95.8 19.2 1<br>7.5 560.5 89.4 18.7 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                           |
| 7.5 5.0.5 89.4 18.7 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                           |

| STATION AL    | STATION ALTITUDE 4126.59 FEET MSL | 26.59 FE     | ET MSL             | _        | UPPER AIR DATA | OATA<br>OB |              | .F 00E T 10 | SEODETIC COOKNINAIFS |
|---------------|-----------------------------------|--------------|--------------------|----------|----------------|------------|--------------|-------------|----------------------|
| 11 APR. 60    |                                   | 0730 HRS MST | MST                |          | HOLLOMAN       | 3          |              | 32.         | 32.88865 LAT LEG     |
| ASCENSION NO. | NO. 108                           |              |                    |          |                |            |              | 106.        | 106.09965 LON DEG    |
|               |                                   |              |                    |          | TABLE 8 (CONT) | CONT)      |              |             |                      |
| GEOME TRIC    | PRESSURE                          | TEM          | TEMPERATURE        | REL.HUM. | DENSITY        | SPEED OF   | WIND DATA    | TA          | INDEX                |
| ALTITUDE      |                                   | AIR          | DEWPOINT           | PERCENT  | GM/CUBIC       | SOUND      | DIRECTIO     | SPEEU       | 90                   |
| MSL FEET      | MILLIBARS                         | DEGREES      | DEGREES CENTIGRADE |          | METER          | KNOTS      | DEGREES (TN) | KNOTS       | REF HAC TION         |
| 84000.0       | 23.4                              | -51.4        |                    |          | 36.7           | 560.1      | 82.7         | 18.4        | 1.000008             |
| 84500.0       |                                   | -51.7        |                    |          | 35.9           | 579.7      | 81.6         | 18.1        | 1.000008             |
| 85000.0       | 22.3                              | -52.0        |                    |          | 35.1           |            | 81.8         | 17.8        | 1.000008             |
| 85500.0       |                                   | -52.3        |                    |          | 34.4           |            | 618          | 17.6        | 1.000008             |
| 86000.0       |                                   | -52.6        |                    |          | 33.6           |            | 83.2         | 16.5        | 1.00001              |
| 86500.0       |                                   | -52.3        |                    |          | 35.6           |            | 85.3         | 15.1        | 1.000007             |
| 67000.0       |                                   | -52.0        |                    |          | 32.            |            | 87.8         | 13.7        | 1.000067             |
| 87500.0       |                                   | -51.7        |                    |          | 31.5           |            | 9.06         | 12.6        | 1.000001             |
| 88000.0       |                                   | -51.2        |                    |          | 30.4           | 5c0.3      | 6+46         | 11.6        | 1.000007             |
| 88500.0       |                                   | -50.8        | -                  |          | 29.1           |            | 98.3         | 10.6        | 1.000001             |
| 89000.0       |                                   | -50.4        |                    |          | 29•0           |            | 105.3        | 10.7        | 1.000ut              |
| 89500.0       |                                   | -20.0        |                    |          | 28.2           |            | 113.3        | 12.0        | 1.000006             |
| 0.00006       |                                   | 9.61-        |                    |          | 27.6           |            | 119.7        | 13.4        | 1.000006             |
| 90206         |                                   | -49.2        |                    |          | 56.9           |            |              |             | 1.000006             |
| 91000.0       |                                   | -48.8        |                    |          | 26.5           |            |              |             | 1.000001             |
| 91500.0       |                                   | 1.81-        |                    |          | 25.6           |            |              |             | 1.000000             |
| 92000.0       |                                   | 6.74-        |                    |          | 24.9           |            |              |             | 1.000006             |

| MANDA CLIELS<br>102 0158          | HOLLOWAIN               |                   |
|-----------------------------------|-------------------------|-------------------|
| STATION ALTITUDE 4126.59 FEET MSL | 11 ApR. 80 0730 HRS MST | ASCENSION NO. 108 |

|   | π.   |
|---|------|
| L | ABLL |
|   |      |

**CEOD: 11: COOKDINATES**32-88805 LAT (E6)
10(-09965 LON DEG

| DAI                   | (TN) KNOTS   | 4X0.6666 | 0999,0XX | 4X0.6666 | 9999.0XX | 25.6   | 3°060  | 7      | 47.0   | 50.0   | 60.3   | 6:09   | 80     | 81.0   | 4.79   | 6163   | 50.0  | 1.19   | 33.5   | 20.5   | 19.8   | X.2    | 2.5    | 17.2             | <b>1 1 1 1 1 1 1 1 1 1</b> | 0.0    | 7 16 7 | 13.0   |
|-----------------------|--------------|----------|----------|----------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|------------------|----------------------------|--------|--------|--------|
| W 1.                  | DEGREES (TN) | 0.6666   | 0.6666   | 0.6666   | 0.6666   | 263.0  | 200.4  | 266.2  | 262.7  | 204.4  | 259.1  | 259.9  | 257.2  | 254.9  | 259.5  | 209.2  | 279.4 | 289.0  | 296.4  | 310.5  | 320.9  | 344.4  | 74.1   | 77.4             | 89.0                       | 101.3  |        | 64.0   |
| REL . HUM.            | PERCEN       | *0*      | •0       | 45.      | 51.      | 5.54   | 47.    | 42.    | 58.    | 50.    | 0 1    | o j    | 47.    | •      |        |        |       |        |        |        |        |        |        |                  |                            |        |        |        |
| TEMPERATURE           | CENTIGRADE   | 2.8      | ÷.5      | -2.9     | -5.6     | 6.6-   | -16.3  | -20.9  | -21.9  | -29.4  | -37.9  | -41.5  | -50.3  |        |        |        |       |        |        |        |        |        |        |                  |                            |        |        |        |
|                       | DEGREES      | 16.4     | 12.8     | 9.4      | 3.6      | -1.5   | 6.9-   | -10.4  | -15.5  | -21.7  | -28.6  | -36.8  | -43.6  | -52.1  | -57.9  | -55.4  | -58.5 | -58.2  | 8.09-  | -65.8  | -61.2  | -58.1  | -58.3  | -54.9            | -55.5                      | -51.9  | 4      | 0.161  |
| PRESSURE GEOPOTENTIAL | FEET         | 4735.    | 6417.    | 8181.    | 10036.   | 11993. | 14064. | 16278. | 18663. | 21242. | 24050. | 27135. | 30586. | 34534. | 39194. | 41983. | 45204 | 48963. | 53547. | 58072, | 60119. | 63950. | 67701. | 72326.           | 78338.                     | 82183. | 96036  | •03600 |
| PRESSURE (            | MILLIBARS    | 850.0    | 800.0    | 750.0    | 700.0    | 650.0  | 0.009  | 550.0  | 200.0  | 450.0  | 0.004  | 350.0  | 300.0  | 250.0  | 200.0  | 175.0  | 150.0 | 125.0  | 100.0  | 80.0   | 70.0   | 0.09   | 20.0   | 0.0 <del>1</del> | 30.0                       | 25.0   | 0.00   |        |

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH, AND ELEVATION ANGLES.

| 1051.00 FEET MSL | 1 APR. 80 0845 HRS MST |                |
|------------------|------------------------|----------------|
| ALTITUDE 4       | 80                     | 106 ACC        |
| TATION           | 1 ApR.                 | Cres.Clos. MO. |

| SIGNIFICANT LEVIL DATA<br>1020030100<br>Jallen<br>TABLE 10 | ) |
|------------------------------------------------------------|---|
|------------------------------------------------------------|---|

| OKO INA 1ES            | LAT LEG  | 537 NOT 1 |
|------------------------|----------|-----------|
| UF ODE TIL COOKDINATES | 53.10712 | 106,49511 |
|                        |          |           |

| PRESSURE  | 입니                 | TEMPE<br>AIR | → F        | REL.HUM.<br>PERCENT |
|-----------|--------------------|--------------|------------|---------------------|
| MILLIBARS | MSL FEET           | DEGREES      | CENTIGRADE |                     |
| 71.       | 051.               | ġ            | -6.8       | •                   |
| 50        | 59                 | 14.4         | 5.4-       | •                   |
| 784.8     | 22.                | 9.5          | -7.5       | •                   |
| 56.2      | 7930.              | •            | -7.7       | •                   |
| 0.00      | 90                 | •            | -          | •                   |
| 7.2       | 2060.              | -3.3         | -14.1      | •                   |
| 0.4       | 3844.              | •            | -22.0      | •                   |
| ó         | •                  | •            | 7.         | •                   |
| 0         |                    | ۲.           |            | •                   |
| 0         |                    | ċ            | 1.37-      | 25.0                |
|           | 26755.2            |              | 1.64-      | •                   |
| 0         | •                  | •            |            |                     |
| 0         |                    | -54.6        |            |                     |
| æ         | :                  | •            |            |                     |
| ŧ         | ÷                  | •            |            |                     |
| 9         | •                  | -56.8        |            |                     |
| 0         | :                  | •            |            |                     |
| <b>3</b>  |                    | -54.5        |            |                     |
| #         | å                  | 52.          |            |                     |
| ~         | •                  | -54.5        |            |                     |
| <b>‡</b>  | ò                  | -56.9        |            |                     |
| o         | ÷                  | -56.5        |            |                     |
| æ         | ÷                  | -59.1        |            |                     |
| 0         |                    | -59.9        |            |                     |
| ó         |                    | . 62.6       |            |                     |
| 0         | å                  | -63.0        |            |                     |
| <b>‡</b>  |                    | 9            |            |                     |
| 9         | ÷                  | -66.0        |            |                     |
| æ         | :                  | Œ            |            |                     |
| Ň         |                    | ÷            |            |                     |
| Ö         | •                  | -62.5        | •          |                     |
| 9         |                    | -59.9        |            |                     |
| æ         | ň                  | -62.6        |            |                     |
| ø         | :                  | •            |            |                     |
| ó         | •                  | -59.1        |            |                     |
| #         | ÷                  | ດ            |            |                     |
| 9.        | $\sim$             | -57.5        |            |                     |
| 0.0       | 8264.              | -54.5        |            |                     |
| 23.8      | 63159.0            |              |            |                     |
| 0.0       | •0 <del>88</del> 9 | -49.5        |            |                     |

STATION ALTITUDE 4051.00 FEET 103.
11 APR. 80 0845 HRS MST
ASCENSION NO. 106

SINTEFICE LEVEL DATA
10%, 30100
UALLE.
TABLE 10

53017(4, 604m,030#755 53-15712 1/7 (6) 100-49311 "On 1E6

TEMPERATURE AIR DEWPOINT DEGREES CENTIGHADE

REL.HUM. PERCENT

-46.5 PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET

13.8 94982.5

| STATION AL           | TITUDE 40     | 1.00           | FEET MSL<br>RS MST                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -      | UPPER AIR DAT<br>1020030106<br>JALLEN | UATA<br>36                 |                         | SEODETIC                              | COORDINATE       |
|----------------------|---------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------------------------|----------------------------|-------------------------|---------------------------------------|------------------|
| ENSIG                | • 106         |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        | TABLE 11                              |                            |                         | 106.                                  | 10<br>0<br>N     |
| GEOME THIC           | PRESSURE      | TEMF           | TEMPERATURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                                       | SPEED OF                   | WIND DAT                | æ                                     | INUEX            |
| ALTITUDE<br>MSL FEET | MILLIBARS     | AIR<br>Degrees | DEWPOINT<br>CENTIGRADE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        | GM/CUBIC<br>METER                     | SOUND<br>KNOTS             | DIRECTIO<br>DEGREES(14) | SPEED<br>KNOTS                        | OF<br>REFRACTION |
| 4051.0               | 871.0         | 16.2           | -6.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 20.0   | 1047.0                                | 603.2                      | •                       | 0•                                    | 1.000250         |
|                      | 857.0         | 15.0           | -5.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 54.6   | 034.                                  | .13                        | 149.0                   | 1.4                                   | S                |
| 5000.0               | 41.           | 13.8           | L.4-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 27.4   | 1019.8                                |                            | 148.0                   | 3.1                                   | 1.000247         |
| 5500.0               | 26.           | 12.7           | -5.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 28.1   | 002                                   | 659.3                      | 148.0                   | 4.7                                   | •                |
| 0.0009               | 11:           | 11.6           | 0.9-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 28.7   | 991.2                                 | 57.                        | 150.0                   | 5.A                                   | 1.000239         |
| 6500•0               |               | 10.            | 9.9-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 29.4   | •                                     | 9.4                        | 1/8·c                   | 0.<br>0.<br>1.                        | 2.000°4          |
| 7500.0               | 768.3         | • •            | 7.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 31.1   | 950                                   | 020<br>020<br>0.44<br>0.44 | 218.8                   | 0 20                                  |                  |
| 80000                | 754           | 7.8            | -7.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 32.3   | 933.6                                 | 653.6                      | 251.0                   | 10.4                                  | 1.0002           |
| 8500.0               | 740           | 6.3            | -8.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 34.2   | _                                     | 651.9                      | 241.0                   | 12.3                                  | 1.000221         |
| 0.0006               |               | 6.4            | å                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 36.1   | е<br>В                                | 650.1                      | 245.1                   | 14.1                                  | 1.000218         |
| 9500                 | 713.2         |                | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 38.1   | ٥                                     | 4.849                      | 240.1                   | 10.1                                  | 1.000215         |
| 10000                |               | 2.0            | -10.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.04   | •                                     | 640.7                      | 250•4                   | œ.                                    | 1.000211         |
| ο.                   | 686           | •              | -11-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 40.7   | Č.                                    | 645.2                      | 5,25,2                  |                                       |                  |
| -                    | 20            | i.             | -12.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 41.5   | •<br>•                                | 643.6                      | 4.00%                   | •<br>•                                |                  |
| 11500.0              | 190           | 6.1.           | 13.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 7 C    | •                                     | 642.1                      | 258.3                   |                                       |                  |
| 0.000.0              | 1 · 1 · 1 · 1 | 1 C            | 6.57                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | , v    | 0 5                                   | 640.5                      | 201.0                   | C -                                   | 1.000147         |
| 13000-0              | 900           | 7 6 4          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3.05C  |                                       | 5.7.0                      | 3.00%                   | • •                                   | 1.000193         |
| 13500.0              | 612.          | 16.3           | 5.08-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 30.1   | 798.5                                 | 636.6                      | 270.1                   | 37.50                                 | 1.00012          |
| 14000.0              |               | -7.2           | -23.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 26.5   |                                       | 635.5                      | 269.5                   | ÷                                     | 1.0001.0         |
| 14500.0              |               | -8.0           | -24.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 54.9   | _                                     | 634.5                      | 207.4                   | <b>:</b>                              | 1.000177         |
| 15000.0              |               | 8.8            | -26.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 23.2   |                                       | 633.6                      | 204.5                   | :                                     | ~                |
| 15500.0              | 266.0         |                | -27.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 21.6   |                                       | 632.7                      | 203.                    |                                       |                  |
| 1650000              |               |                | 200.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 21.5   | 725.0                                 | 4.109                      | 2.002                   | ,<br>,                                | 1.0001.          |
| 17000.0              | 533.2         | -13.2          | -30.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 22.4   | 714.0                                 | 6.8.2                      | \$ 0.00<br>\$ 0.00      | ריי ו                                 | 1.000102         |
| _                    | Q.            | -14.5          | -31.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        | 703.5                                 | •                          | 2005                    | •                                     | 1.000159         |
| 9                    | 512.3         | -15.7          | 31.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | •      | •                                     | 6,5.1                      | 0.co2                   | 3                                     | 1.000157         |
| 3500                 | 502.1         | -17.0          | 32.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | •      | •                                     | ÷                          | 1.402                   | 43.7                                  | ٦٦               |
| 900                  | 6             | -18.3          | M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | •      | •                                     | 6,2,0                      | 204.3                   | <b>~</b> 7                            |                  |
| 195000               | 5             | -19.5          | 80 · de 10 · d | •      |                                       | 5.0.3                      | 2.402                   | 42.3                                  | 3                |
| 9 9                  | 0.1/4         | 8.02<br>-      | ,<br>,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 24.5   | •                                     | •                          | 204.1                   | ┙.                                    | 1.000147         |
| •                    | 20            | 0.22           | 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | •      |                                       | •                          | 202.3                   | T• 1                                  | 1                |
|                      | 70.4          | 753.5          | . C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | •      |                                       | ο.                         | 8 · 202                 |                                       | 100              |
| 000000               | 1             | v              | , 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0 1 20 | 050.00                                | •                          | 7.002                   | · · · · · · · · · · · · · · · · · · · | 04.1000.1        |
| 9                    | 25.           | 27.            | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        | 601.5                                 | • •                        | 503.7                   |                                       | ٠, ،             |
| 000                  | 9             | :<br>:3        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ÷      | •                                     | 7                          | 5.202                   | _                                     | ~                |
| 3500                 | -             | +-62-          | 1.67                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 54.9   | 582.9                                 | 9                          | 201.3                   | 55.1                                  | 0001             |
|                      |               |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                                       |                            |                         |                                       |                  |

| UPPER A S DATA | 1020330105      | JALLEN                 | (HICO) LCOH |
|----------------|-----------------|------------------------|-------------|
|                | 4651.00 FEET MS | 1 APR. 80 0845 HRS MS; | 90          |
|                | ATION ALTITUDE  | ApR. 80                | CENSION NO. |

| 11 APR 60<br>ASCENSION NO.        | 106                   | 0845 HRS MST                          | ¥S¥                                     |                     | JALLEN<br>TABLE 11 ((          | (CONT)                     |           | 33.<br>106.          | 33.10712 LAT DEG<br>106.49511 LON DEG |
|-----------------------------------|-----------------------|---------------------------------------|-----------------------------------------|---------------------|--------------------------------|----------------------------|-----------|----------------------|---------------------------------------|
| GEOMETRIC<br>ALTITUDE<br>MSC FEET | PRESSURE<br>MILLIBARS | TEMP<br>AIR<br>Degrees                | EMPERATURE<br>DEWPOINT<br>ES CENTIGRADE | REL.HUM.<br>PERCENT | DENSITY S<br>GM/CUBIC<br>METER | SPEED OF<br>SOUND<br>KNOTS | WIND DAT  | TA<br>SPEED<br>KNOTS | INDEX<br>OF<br>REFRACTION             |
| 24000.0                           |                       | -30.7                                 | -44.2                                   | 25.0                | 573.7                          | 606.7                      | 260.0     | 58.5                 | 1.000129                              |
| 4500.                             | 390                   | -31.8                                 | 5                                       | 25.4                | 564.1                          | 605.2                      | 259.0     | 61.7                 | 0001                                  |
| 25000.0                           |                       | -33.0                                 | 0.94-                                   | 25.7                | 554.7                          | 2                          | 58.       | 0.49                 | 00012                                 |
| 25500.0                           |                       | 34                                    | 6.94-                                   | 26.1                | 545.5                          | 602.3                      | 559.1     | 65.0                 | •                                     |
| _                                 |                       | -35.3                                 | 8.44-                                   | 26.5                | 536 • 4                        |                            | 559.1     | 6.49                 | Ω.                                    |
| -                                 |                       | -36.5                                 | -48.7                                   | 26.8                | 527.5                          | •                          | 258.7     | 62.8                 | .00011                                |
| 27000.0                           |                       | -37.7                                 | -50•3                                   | 25.2**              | 518.6                          | 597.8                      | 258.3     | 61.3                 | •                                     |
| 27500.0                           |                       | -39.0                                 | -52.7                                   | 21.6**              | 209.9                          | 596.5                      | 558.4     | 61.2                 | 1.000114                              |
| 28000.0                           |                       | -40.5                                 | -55•3                                   | 18.0**              | 501.3                          | 594.6                      | 258.5     | •                    | •                                     |
| 28500.0                           |                       | -41.5                                 | -58.1                                   | 14.3**              | 495.9                          | 592.9                      | 558.9     | 61.3                 | 1.000110                              |
| 29000                             |                       | -42.8                                 | -61.4                                   | 0.7*                | 9. 181                         | 591.3                      | 259.2     | 61.3                 | •                                     |
| 29500.0                           |                       | 0.11                                  | 165.5                                   | 7                   | 4/6.5                          | 509.7                      | 259.2     | 6.09                 | •                                     |
| 30000                             |                       | -45.3                                 | -71.5                                   | N. F. #             | 468.5                          | 5 <sub>6</sub> 8.1         | 7.652     | 62.0                 | •                                     |
| 30500                             |                       | 9.00                                  |                                         |                     | 460.6                          | 500.4                      | 259.3     | 9.49                 | 1.000103                              |
| 0.00016                           |                       | 9.00.7                                |                                         |                     | 1050H                          | 565.1                      | 259.5     | 20.00                | •                                     |
| 32000.0                           |                       | 7.00                                  |                                         |                     |                                | 1000<br>1000<br>1000       | 250.0     | 7.07                 | •                                     |
| 32500.0                           | 273.0                 | -50.7                                 |                                         |                     | 427.5                          | 581.1                      | 259+1     | 73.6                 | 1.000097                              |
| 33000.0                           |                       | -51.7                                 |                                         |                     | 419.6                          | 579.7                      | 258+5     | 74.2                 | •                                     |
| 33500.0                           |                       | -52.8                                 |                                         |                     | 411.8                          | 578.3                      | 257.9     | 74.4                 | •                                     |
| 34000.0                           | 254.5                 | -53.8                                 |                                         |                     | 7.404                          | 577.0                      | 257.5     | 74.7                 | •                                     |
| 34500.0                           |                       | 154.0                                 |                                         |                     | 396.7                          | 575.7                      | 257.4     | 75.2                 | •                                     |
| 0.00000                           |                       | 22.0                                  |                                         |                     | 388.7                          | 574.7                      | 257.5     | 75.7                 | •                                     |
| 35500.0                           |                       | 120.1                                 |                                         |                     | 381.0                          | 573.6                      | 257.9     | 76.4                 | •                                     |
| 35000.0                           | 226.0                 | 156.0                                 |                                         |                     | 3/1.4                          | 574.0                      | 258•2     | 76.7                 | 1.000083                              |
| 32000                             | 220.7                 | * * * * * * * * * * * * * * * * * * * |                                         |                     | 20202                          | 374.4                      | Z • 0 5 C | 20,5                 | •                                     |
| 37500.0                           | 215.5                 | 56.7                                  |                                         |                     | 304.0                          | 013.0                      | 2,44,0    | 7.50                 | 1.0000.1                              |
| 38000.0                           | 210.4                 | -56.0                                 |                                         |                     | 337.6                          | 574.1                      | 4.64.6    | 0.0                  | 2/0000 • I                            |
| _                                 | 205.5                 | -55.3                                 |                                         |                     | 328.6                          | 575.0                      | 261.3     | 20.0                 | 1.000073                              |
| _                                 | _                     | -54.7                                 |                                         |                     | 319.0                          | 5,75                       | 263.      | 71.4                 | 1.0000.1                              |
| 39500.0                           | 195.9                 | 54.                                   |                                         |                     | 312.2                          | 576.0                      | 206.2     | 73.0                 | 1.000070                              |
| _                                 | -                     | -54.5                                 |                                         |                     | 304.9                          | 570.0                      | 2002      | 74.7                 | 0000                                  |
| 0200                              | •                     | 54.                                   |                                         |                     | 298.0                          | 575.8                      | 271.8     | •                    | 1.00000,6                             |
| _                                 | N.                    | -55.3                                 |                                         |                     | 291.7                          | 575.0                      | 274.2     | 73.9                 | 1.0000-5                              |
| _                                 | 178                   | -55.5                                 |                                         |                     | 284.7                          | 515.2                      | 276.0     | $\sim$               |                                       |
| 42000-0                           | <b>1</b> /1           | -55.1                                 |                                         |                     | 278.0                          | 5,52                       | , B.      | •                    | 1.000002                              |
| 2500.                             | 691                   | 26                                    |                                         |                     | 272.6                          | 574.0                      |           | 65.4                 | 1.000001                              |
| 300                               | , g                   | ġ.                                    |                                         |                     | 267.2                          | 572.9                      | ລ         | 62.1                 | 1.000000                              |
| 43500.0                           | 162.0                 | -56.8                                 |                                         |                     | 260.8                          | ÷                          | 293.0     | 29.1                 | 1.000058                              |

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

| STATION ALTI<br>11 APR. 83<br>ASCENSION NO | STATION ALTITUDE 4051<br>11 APR. 83<br>ASCENSION NO. 106 | 51.00 FEET 45.<br>0845 HRS MS. |          | PER 418<br>10200391 | UATA<br>05     |               | 0.000000000000000000000000000000000000 | C COOKOINATES<br>16712 LAY LCG<br>49511 LOY GEG |
|--------------------------------------------|----------------------------------------------------------|--------------------------------|----------|---------------------|----------------|---------------|----------------------------------------|-------------------------------------------------|
|                                            |                                                          |                                |          | TABLE 11 (          | (CONT)         |               |                                        |                                                 |
| GEOMETRIC                                  | PRESSURE                                                 | TEMPERATURE                    | REL.HUM. | DENSITY             | SPEED OF       | MIND DA       | DATA                                   | INDEX                                           |
| HSL FEET                                   | MILLIBARS                                                | DEGREES CENTIGRAD              |          | METER               | KNOTS          | DEGREES (Til) | SPEEU<br>KNOTS                         | HEF HAC TION                                    |
| 64000.0                                    | •                                                        | •                              |          | 4.76                | 567.0          | 58.1          | 6.3                                    | 1.000022                                        |
| -                                          | 58.0                                                     | -61.8                          |          | លិក                 |                | 65.9          | 5.0                                    | 1.000021                                        |
| 65500.0                                    | 55.2                                                     | -61.8                          |          | 91.0                | ה מל<br>ה      | 87.0          |                                        | 1.000021                                        |
| -                                          | 53.9                                                     | <b>-</b> 59.8                  |          | 8                   | 25             | 91.4          | 6.9                                    | 1.000020                                        |
| _                                          | •                                                        | -59.2                          |          | មា                  | 509.           | 101-1         | 7.3                                    | •                                               |
| 67500.0                                    | 50.1                                                     | -59.1                          |          | 83.6                |                | 105.6         | 7.3                                    | 1.000019                                        |
|                                            | 48.9                                                     | -58.6                          |          | 79.5                | 570            | 9.46          |                                        | .0000                                           |
| •                                          | 47.8                                                     | -58.1                          |          | <b>,</b>            | 571.           | 77.9          | •                                      | 00001                                           |
| •                                          | •                                                        | -57.5                          |          | 75.4                | 572            | 63.2          | 7.2                                    | .00001                                          |
| 70.00                                      |                                                          | 27.                            |          | ÷.                  | 572.           | 22.5          | å,                                     | 10000                                           |
| 20500.                                     | 1 3 4                                                    | 135.0                          |          | 4.66                |                | 1.00          | 15.5                                   | 1.000016                                        |
| 71000.0                                    | 45.4                                                     | ŝ                              |          | Š                   |                | 65.3          | ነው                                     | 1.000015                                        |
| 71500.0                                    | † • ₹ †                                                  | 156.5                          |          | 9.99                |                | 4.70          | 20.0                                   | •                                               |
| 72500.0                                    |                                                          | -56.9                          |          | 65.1                |                | 9.60          | 20.7<br>20.7                           | 1.000014                                        |
| 73000.0                                    | 38.5                                                     | 57.5                           |          | 65.09               |                | 75.8          | 1.02                                   | *10000*1                                        |
| 73500.0                                    | 37.6                                                     | -57.2                          |          | 60.7                |                | 81.3          | 19.3                                   | 10000                                           |
| 24000.0                                    | 36.7                                                     | -56.9                          |          | •                   | 572.9          | 87.0          | 19.1                                   |                                                 |
| 7500.0                                     | 7.00                                                     | -56.6                          |          | 57.7                | 573.2          | 90.5          | 19.4                                   |                                                 |
| 75500.0                                    | 34.5                                                     | -56.1                          |          |                     | 574.0          | 93.9          | 50.0                                   | 1.000013                                        |
| 76000.0                                    | #* PP                                                    | -55.8                          |          | •                   | 574.4          | 95.3          | 20.7                                   | .00001                                          |
| 77000.0                                    | 31.9                                                     | -55.2                          |          | 52.5                | 574.7          | 40.5          | 20.5                                   | 1.000012                                        |
| 77500.0                                    | 31.1                                                     | -54.9                          |          |                     | 575.5          | F - 66        | 18.7                                   | 1.000011                                        |
| 78000.0                                    | 30.4                                                     | -54.6                          |          |                     |                | 101.4         | 16.9                                   | .0000                                           |
| 78500.0                                    | 29.7                                                     | ÷.                             |          | 47.3                |                | 104.0         | 15.2                                   | 10000                                           |
| 0.00067                                    | 29.0                                                     | 104.6                          |          | 46.2                | 575.9          | 106.5         | 13.6                                   | 1.000010                                        |
| A0000.                                     | 27.6                                                     |                                |          | ດ :                 | 575.8          |               | 12.8                                   |                                                 |
| 80500.0                                    | 27.0                                                     | • •<br>• •                     |          |                     | _              | 10401         | 0.21                                   | 1.000010                                        |
|                                            | 0                                                        |                                |          | 600                 | 0,000<br>4,448 | J O           | 7.11                                   | 010000 +                                        |
|                                            | 25.7                                                     | ្តា                            |          | 41.1                |                | ` (           | 0.41                                   | **************************************          |
| _                                          | 25.1                                                     | iñ                             |          | 40.5                | 575.2          | · +           | 16.9                                   | 6:000.T                                         |
| 82500.0                                    | *                                                        | 55.                            |          | 39.3                |                | 95.5          | 16.3                                   | 1.000009                                        |
|                                            | D : 10                                                   | 55                             |          | 60 i                | _              |               | 19.6                                   | 1.000009                                        |
| 0.00500                                    | •                                                        | 7.+61                          |          | 37.4                | 575.6          | 96.3          | 50.9                                   | 1.000008                                        |

| ST<br>11<br>ASA | STATION ALTITION IN ABSCENSION NO. | STATION ALTITUDE 405<br>11 Apr. 39<br>Ascension no. 106 | 51.00 FEET MSL<br>0845 HRS MS? | JSW ≥SW<br>NS 1                             | ٦                   | UPPER AIR DATA<br>1020030106<br>JALLEN<br>TABLE 11 (CONT) | DATA<br>06<br>(CONT)       |                                                           | υξορετη<br>33•<br>106• | 05 002 110 0004014 #185<br>33.16712 27 050<br>106.49511 004 060 |  |
|-----------------|------------------------------------|---------------------------------------------------------|--------------------------------|---------------------------------------------|---------------------|-----------------------------------------------------------|----------------------------|-----------------------------------------------------------|------------------------|-----------------------------------------------------------------|--|
| A P S           | GEOMETRIC<br>ALTITUDE<br>MSL FEET  | PRESSURE<br>MILLIBARS                                   | TEMF<br>AIR<br>Degrees         | TEMPERATURE<br>R DEWPOINT<br>EES CENTIGRADE | REL.HUM.<br>PERCENT | DENSITY<br>GM/CUBIC<br>METER                              | SPEED OF<br>SOUND<br>KNOTS | WIND DATA<br>DIRECTIO, SI<br>DEGREES(T <sub>IV</sub> ) KI | SPEED<br>KNOTS         | INDEX<br>OF<br>REFRACTIOL                                       |  |
| _               | 84000.0                            | 22.9                                                    | -54.1                          |                                             |                     | 36.4                                                      | 576.6                      | 101.7                                                     | 21.4                   | 1.000008                                                        |  |
| _               | 84500.0                            | 22.4                                                    | -53.3                          |                                             |                     | 35.4                                                      |                            | 108.0                                                     | 21.3                   | 1.000008                                                        |  |
| _               | 85000.0                            | 21.8                                                    | -52.5                          |                                             |                     | 34.5                                                      |                            | 114.4                                                     | 21.4                   | 1.000008                                                        |  |
| _               | 85500.0                            | 21.3                                                    | -51.7                          |                                             |                     | 33.6                                                      |                            | 119.9                                                     | 21.6                   | 1.00007                                                         |  |
| _               | 86000.0                            | 20.8                                                    | -50.9                          |                                             |                     | 32.7                                                      | 580.8                      | 121.4                                                     | 21.7                   | 1.000007                                                        |  |
| -               | 86500.0                            | 20.4                                                    | -50.1                          |                                             |                     | 31.8                                                      | 5,1.8                      | 123.0                                                     | 21.7                   | 1.000007                                                        |  |
| -               | 87000.0                            | 6.61                                                    | -49.5                          |                                             |                     | 31.0                                                      |                            | 124.6                                                     | 21.7                   | 1.000007                                                        |  |
| -               | 87500.0                            | 19.4                                                    | -49.3                          |                                             |                     | 30.5                                                      |                            | 122.9                                                     | 50.9                   | 1.000007                                                        |  |
| - '             | 88000.0                            | 19.0                                                    | -49.1                          |                                             |                     | 29.5                                                      |                            | 120.6                                                     | 20.1                   | 1.000007                                                        |  |
| _               | 88500.0                            | 18.6                                                    | 6.81                           |                                             |                     | 28.8                                                      | 503.4                      | 118.2                                                     | 19.3                   | 1.000006                                                        |  |
| ~               | 89000.0                            | 18.1                                                    | -48.7                          |                                             |                     | 28.5                                                      |                            | 116.7                                                     | 18.4                   | 1.000006                                                        |  |
|                 | 89500.0                            | 17.7                                                    | -48.5                          |                                             |                     | 27.5                                                      |                            | 116.0                                                     | 17.6                   | 1.000000                                                        |  |
| 7               | 0.00006                            | 17.3                                                    | -4B.3                          |                                             |                     | 26.9                                                      |                            | 115.3                                                     | 16.7                   | 1.000006                                                        |  |
| - '             | 0.00506                            | 16.9                                                    | 148.2                          |                                             |                     | 26.2                                                      |                            | 114.9                                                     | 16.2                   | 1.000006                                                        |  |
| -               | 91000.0                            | 16.6                                                    | -48.0                          |                                             |                     | 25.6                                                      |                            | 115.7                                                     | 16.9                   | 1.000006                                                        |  |
|                 | 91500.0                            | 16.2                                                    | -47.8                          |                                             |                     | 25.0                                                      | -                          | 116.4                                                     | 17.6                   | 1.000006                                                        |  |
|                 | 92000.0                            | 15.8                                                    | 9.24-                          |                                             |                     | 54.4                                                      |                            | 117.1                                                     | 18.2                   | 1.000005                                                        |  |
| -               | 92500.0                            | 15.5                                                    | ち・ヘカー                          |                                             |                     | 23.9                                                      |                            |                                                           | ı                      | 1.000005                                                        |  |
|                 | 93000.0                            | 15.1                                                    | -47.2                          |                                             |                     | 23.3                                                      |                            |                                                           |                        | 1.00005                                                         |  |
|                 | 93500.0                            | 14.8                                                    | -47.0                          |                                             | •                   | 22.8                                                      |                            |                                                           |                        | 1.00005                                                         |  |
| •               | 0.00046                            | 74.4                                                    | 6.94-                          |                                             |                     | 22.2                                                      |                            |                                                           |                        | 1.000005                                                        |  |
|                 | 94500.0                            | 14.1                                                    | -46.7                          |                                             |                     | 21.7                                                      | -                          |                                                           |                        | 1.000005                                                        |  |
|                 |                                    |                                                         |                                |                                             |                     |                                                           |                            |                                                           |                        | ,                                                               |  |

| MANDATOP LEVELS | 1020053100                        | JALLER                  | C. 1. 108 F       |
|-----------------|-----------------------------------|-------------------------|-------------------|
|                 | STATION ALTITUDE 4051.00 FEET MSE | 11 APR. 80 0845 HRS MST | ASCENSION NO. 106 |

1

GEODETIC COORDINATES 33.16712 LAT DEG 106.49511 LON DEG

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|       | FEET   | AIR<br>DEGREES | CENTIGRADE | PERCEN     | DEGREES (IN) | N) KNOTS |
|-------|--------|----------------|------------|------------|--------------|----------|
| 850.0 | 4726.  | 14.4           | N. 4-      | 27.        | 148.0        | 2.2      |
| 800.0 | 6394.  | 10.7           | -6.5       | 29.        | 174.6        | 0.5      |
| 750.0 | 8147.  | 7.4            | -7.9       | 33.        | 234.9        | 11.0     |
| 700.0 | 9992.  | 2.0            | -10.2      | <b>*</b> 0 | 250.4        | 10,6     |
| 650.0 | 11936. | -3.0           | -13.8      | 43.        | 261.4        | 20,4     |
| 600.0 | 13999. | -7.3           | -23.2      | 26.        | 269.5        | 40.1     |
| •     | 16209. | •              | -28.8      | 22.        | 263.4        | 45.5     |
| 500.0 | 18581. | -17.3          | -33.0      | 24.        | 564.6        | 43.6     |
| 450.0 | 21140. | -23.6          | -38.2      | 24.        | 562.9        | 41.2     |
| 0.004 | 23926. | -30.6          | 1.44-      | ,<br>55.   | 260.1        | 50.5     |
| 350.0 | 26992  | -37.8          | -20 • 4    | 25.**      | 258•3        | 610      |
| 300.0 | 50414. | -46.5          |            | )          | 259.3        | £.40     |
| 250.0 | 34315. | -54.6          |            |            | 257.5        | 75.1     |
| 200.0 | 38975. | -54.6          |            |            | 263.0        | 71.6     |
| 175.0 | 41776. | -54.9          |            |            | 277.8        | 70.0     |
| ċ     | .18644 | -56.5          |            |            | 284.5        | 57.7     |
| 0     | 48749. | -59.5          |            |            | 289.5        | 42.0     |
| •     | 53292. | -63.0          |            |            | 304.3        | 3., 0    |
| 80.0  | 57740. | -68.5          |            |            | 310.4        | 24.5     |
| 70.0  | .04409 | -62.5          |            |            | 317.6        | 14.2     |
| •     | 63583. | -61.1          |            |            | 50.8         | 6•3      |
| 50.0  | 67307. | -59.1          |            |            | 101.0        | 0.0      |
| •     | 71939. | -57.0          |            |            | 70.3         | 20.1     |
| 30.0  | 77938. | -54.5          |            |            | 102.5        | 10.1     |
| •     | 81763. | -55.2          |            |            | 9.46         | 17.2     |
| 20.0  | 86482. | -49.5          |            |            | 124.1        | 21.7     |
| 5.0   | 92697. | -47.2          |            |            | ,            |          |

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERFOLATION.